

Practice Board Exam Questions: Endocarditis

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Question 1

Which of the following represents the specificity of transthoracic echo for infective endocarditis?

- A. 60-70%
- B. 30-40%
- C. 90-100%
- D. <10%

Answer: C. 90-100%

Transthoracic

- ✓ Resolution ~ 3-4 mm
- ✓ Sensitivity: 62-82%
- ✓ Specificity: 91-100%
- ✓ Readily available, usual initial test of choice

Transesophageal

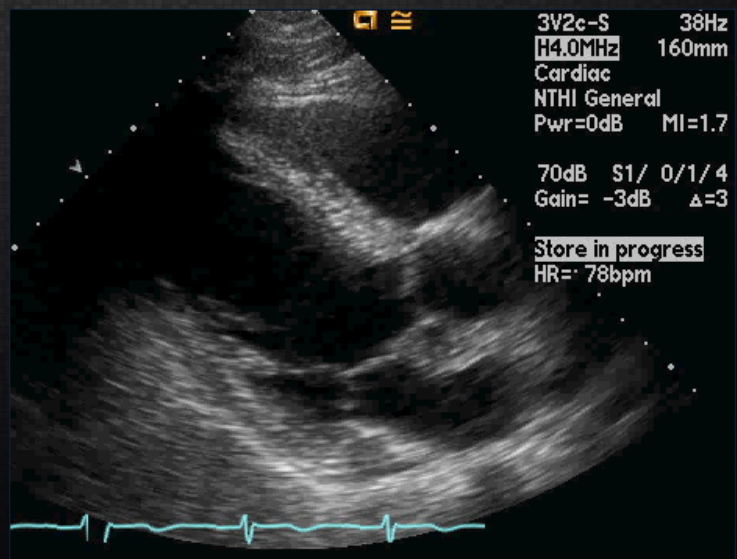
- ✓ Resolution ~ 1-2 mm
- ✓ Sensitivity: 87-100%
- ✓ Specificity: 91-100%
- ✓ Greater (3-4x) sensitivity for prosthetic valves

Jacob S et al. Curr Opin Cardiol 2002;
Kini V et al. JASE 2010; Pederson WR et al. Chest 1991

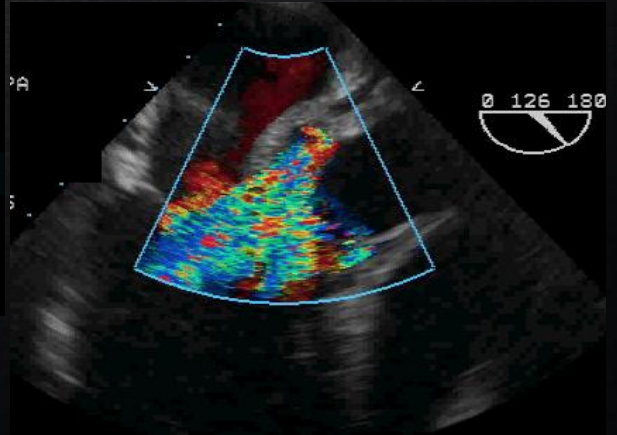
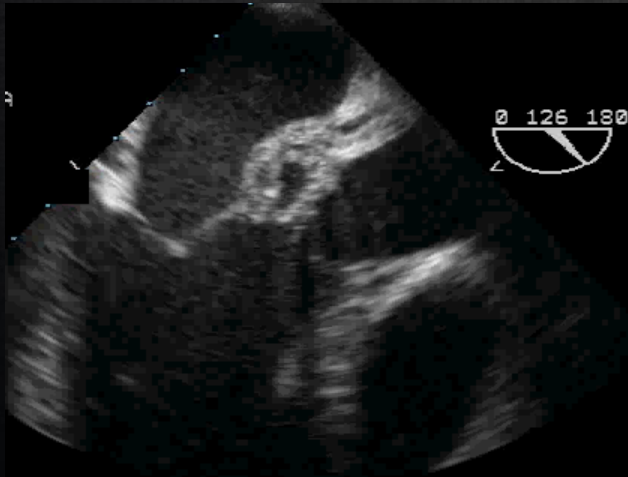
Question 2

What is the clip most suggestive of?

- A. Bicuspid Aortic valve
- B. Aortic root abscess
- C. Coronary aneurysm
- D. Mitral perforation



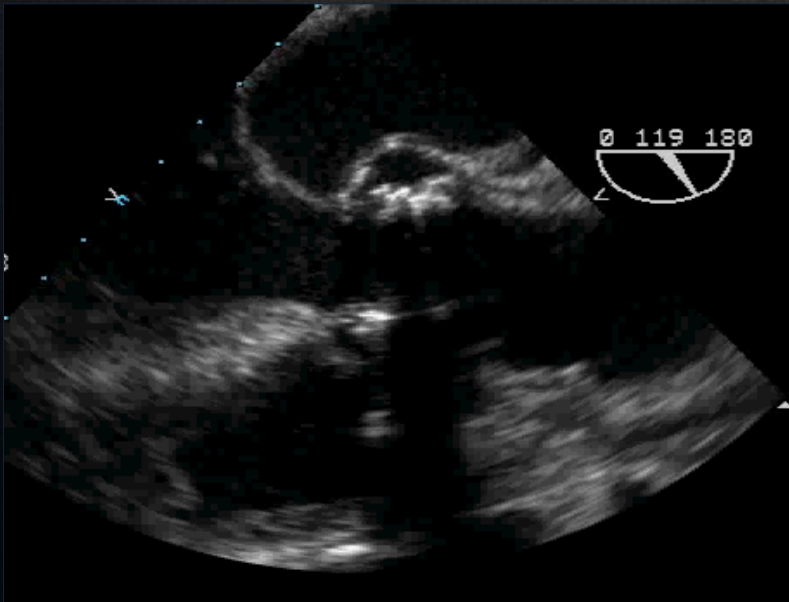
Answer: B. Aortic Root Abscess



Question 3

What does this clip demonstrate?

- A. Prosthetic valve stenosis
- B. Prosthetic valve endocarditis
- C. Mitral valve endocarditis
- D. Aortic dissection



Answer: B. Prosthetic Valve Endocarditis

- ✓ New prosthetic valve dehiscence or rocking motion is endocarditis until proven otherwise
- ✓ Attention to surrounding structures for evidence of extension of infection

Question 4

Which of the following is a major Modified Duke Infective Endocarditis criterion?

- A. Fever $> 38^{\circ}\text{C}$
- B. Intravenous drug use
- C. Osler's nodes or Roth spots
- D. Blood cultures (+) MSSA
- E. Septic emboli

Answer: D. Blood Cultures (+) MSSA

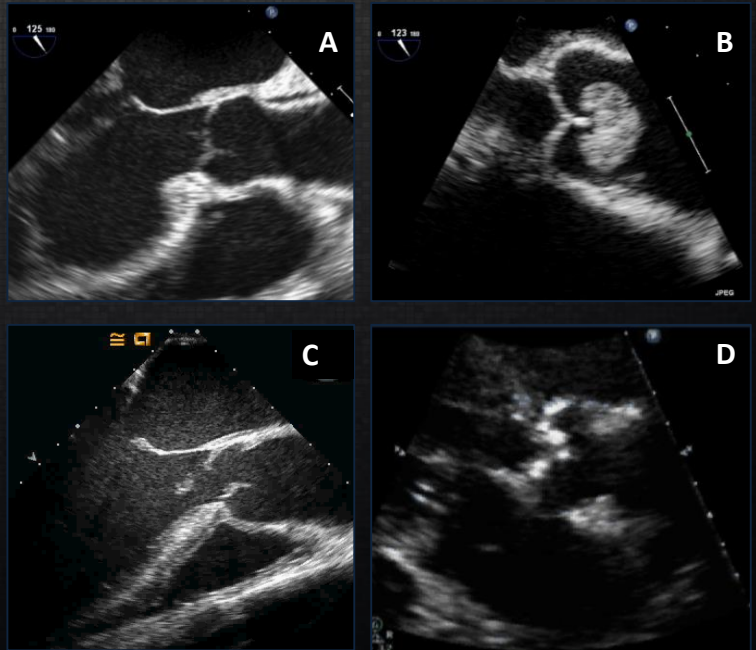
- A. Fever
- B. Intravenous drug use
- C. Osler's nodes or Roth spots
- D. Blood cultures (+) MSSA
- E. Septic emboli

Major Criteria

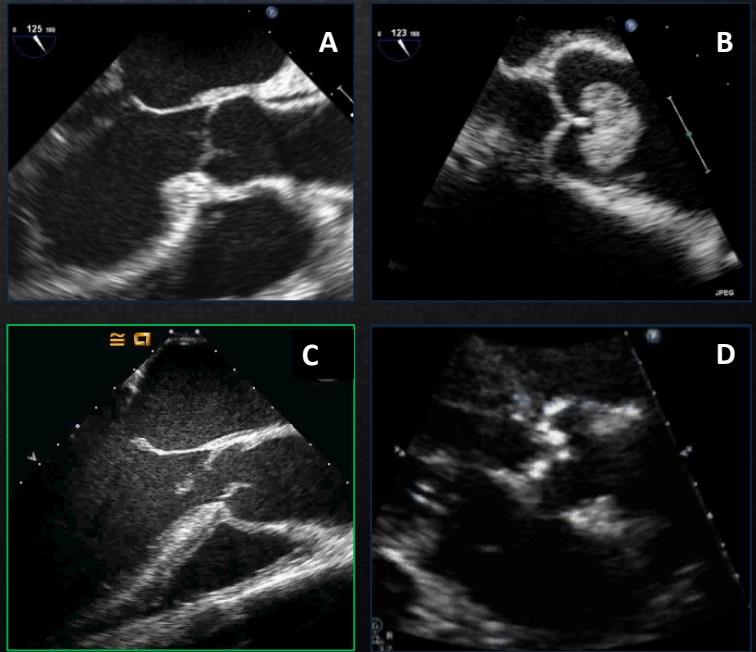
Minor Criteria

Question 5

Which is most likely endocarditis?



Answer: C



Practice Board Exam Questions: Normal Transthoracic Echocardiogram

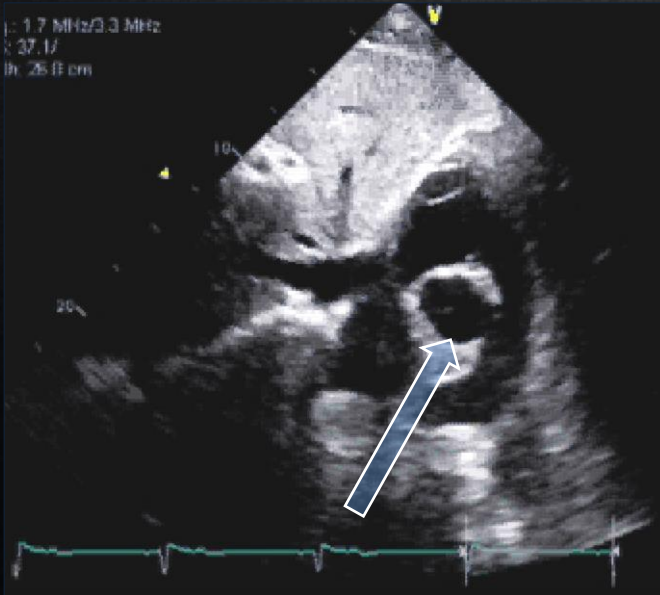
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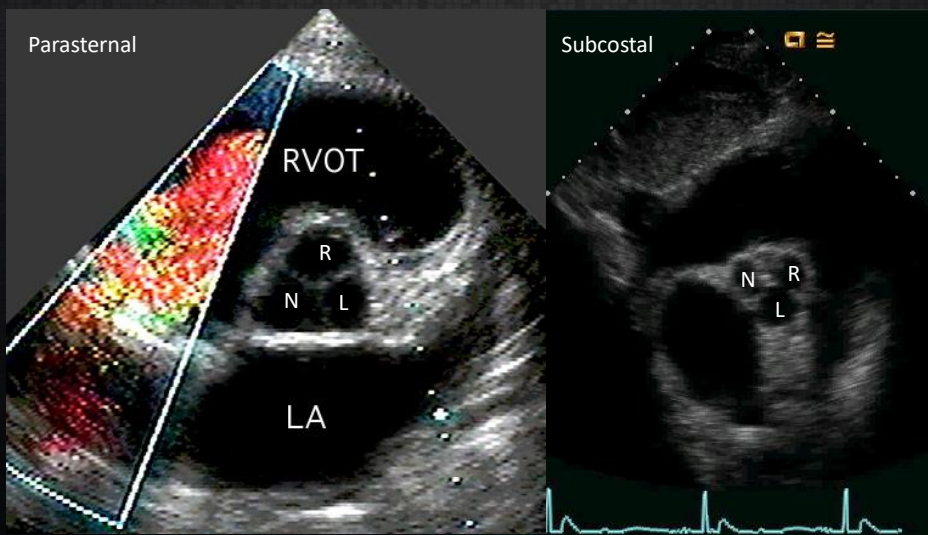
Question 1

Which aortic cusp is noted by the arrow?

- A. Right
- B. Left
- C. Non-Coronary
- D. Can't tell



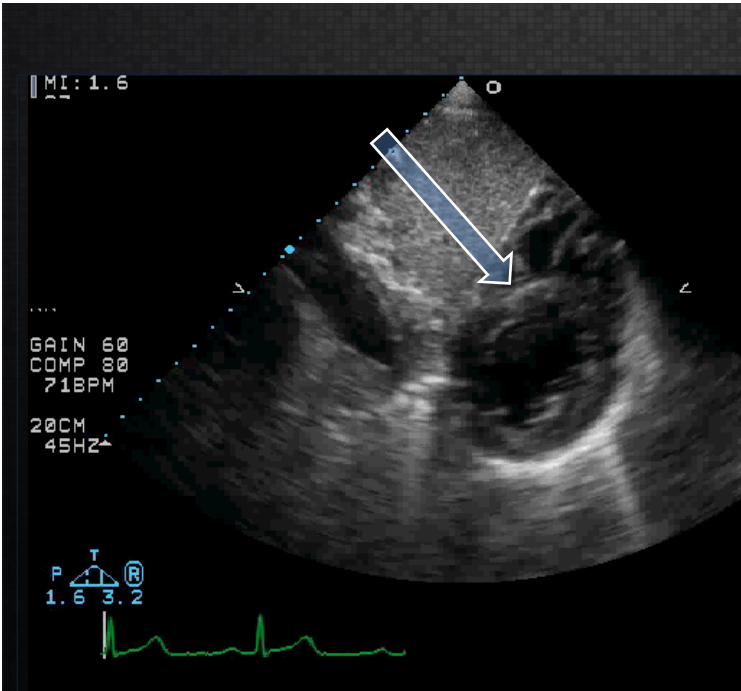
Answer: B. Left Coronary Cusp



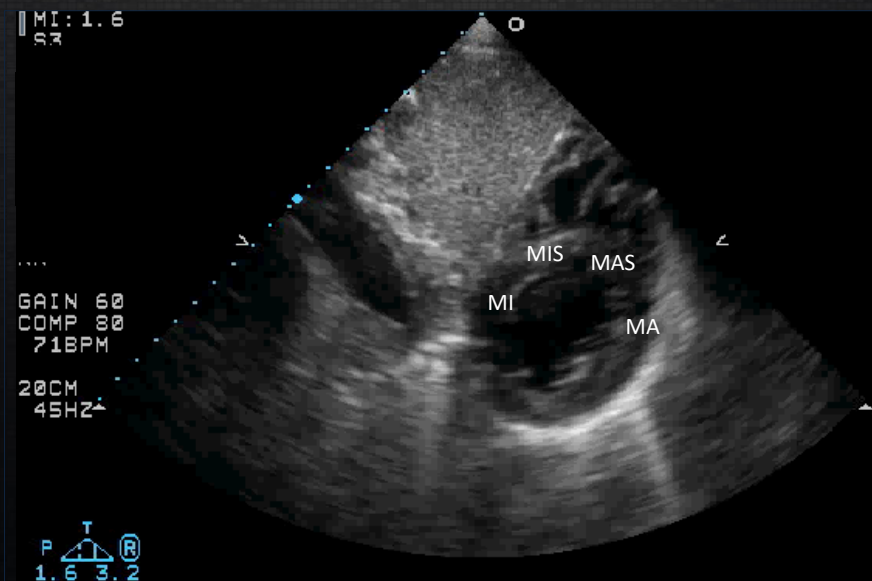
Question 2

Which myocardial segment is denoted by the arrow?

- A. Mid Anterior
- B. Mid Anteroseptum
- C. Mid Inferoseptum
- D. Basal Anteroseptum
- E. Mid Inferolateral



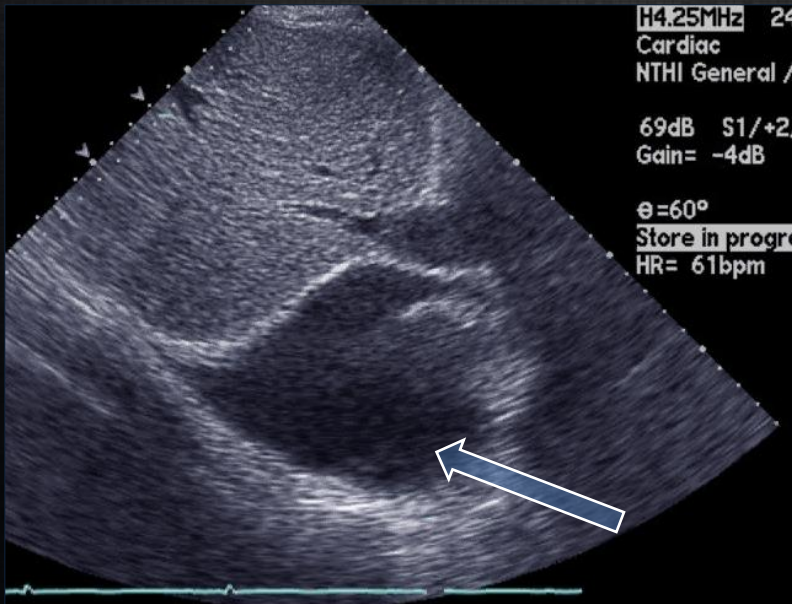
Answer: C. Mid Inferoseptum



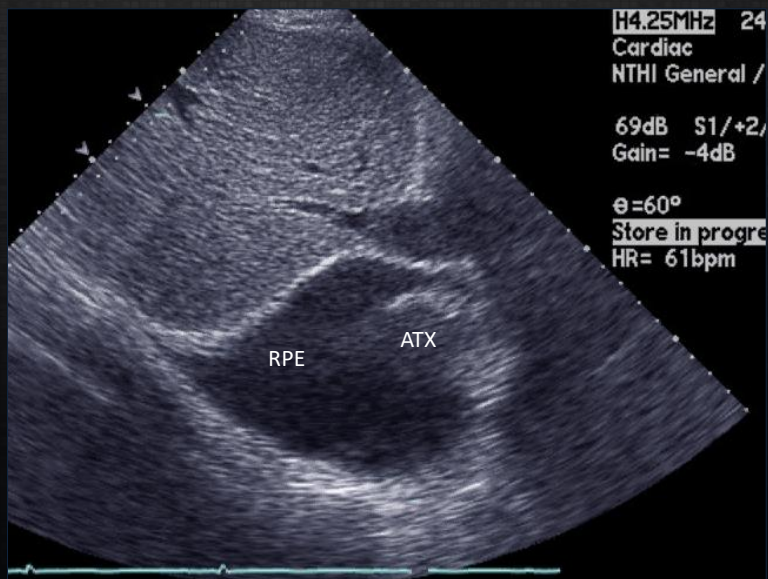
Question 3

What is indicated by the arrow?

- A. Pericardial Effusion
- B. Left Pleural Effusion
- C. Ascites
- D. Right Pleural Effusion



Answer: D. Right Pleural Effusion



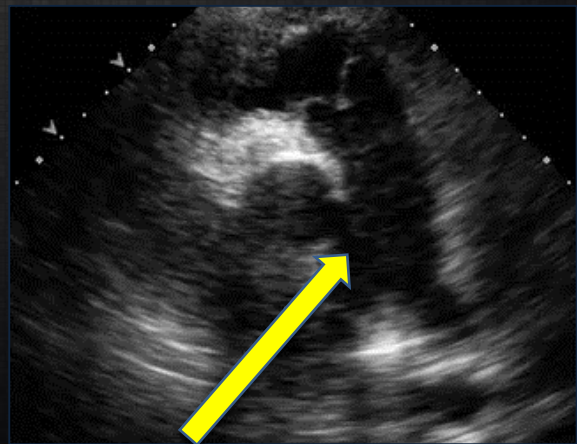
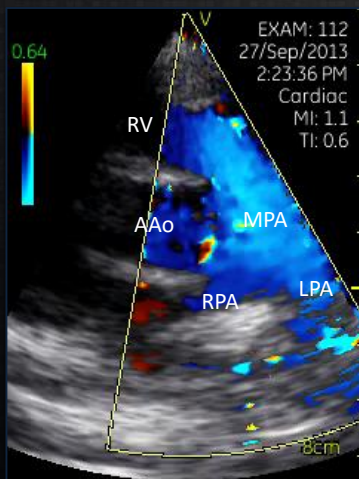
Question 4

The structure identified by the arrow is:

- A. Descending Thoracic Aorta
- B. Left atrium
- C. Main Pulmonary Artery
- D. Ascending Aorta



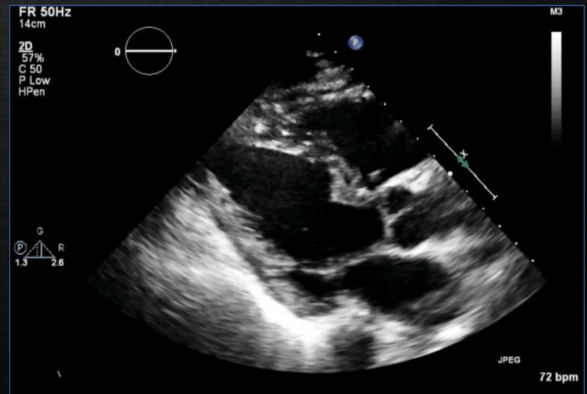
Answer: C. Main Pulmonary Artery



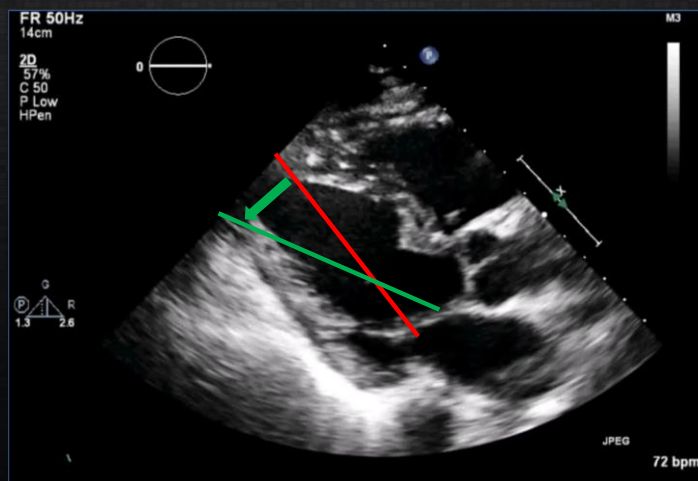
Question 5

How would you improve this image?

- A. Move up one interspace
- B. Tilt the probe tail down
- C. Tilt the probe tail up
- D. Increase the 2D Gain
- E. Move down one interspace



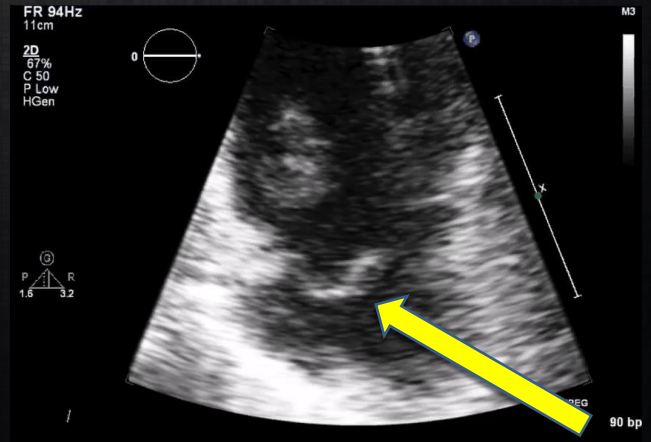
Answer: A. Move up one interspace



Question 6

The structure identified by the arrow is most likely:

- A. Crista terminalis
- B. Thrombus
- C. Chiari network
- D. Eustachian valve
- E. Intravenous catheter



Answer: C. Chiari Network

Chiari Network

- ✓ No known function
- ✓ Not present in every patient
- ✓ Netlike structure that is highly mobile
- ✓ Usually arises from the vicinity of the IVC not attached to the septum

Eustachian Valve

- ✓ Directs IVC flow across fossa in fetus
- ✓ Present in every fetus
- ✓ Ridge of tissue - rarely mobile at all
- ✓ Arises from the IVC and runs to the fossa